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REPORTS ON THE FLORA OF MASSACHUSETTS—IV

The sequence of genera and species in this report is largely the same as that in Hitchcock's Manual of the Grasses of the United States, since most students of the grasses accept this as being more nearly correct in a phylogenetic sense than the sequence used in the seventh edition of Gray's Manual. Unless otherwise noted, explanations of unfamiliar names can be found in Hitchcock's Manual. Changes due to the homonym rule are largely self-explanatory.

The variation in frequency between the species of grasses is probably greater than in any other family. Some families may show a large list of casuals based on a single record each just as in the grasses, but at the other extreme none can compare with the meadow and salt marsh grasses in the sheer extent of area covered and multiplicity of individuals. It has been difficult to estimate the frequency of the less common species, especially where we had to rely on herbarium material since collecting has been much more intensive in some counties than in others.

GRAMINEAE (GRASS FAMILY)

BROMUS L. BROME GRASS

B. CATHARTICUS Vahl. (*B. unioloides* (Willd.) Raspail). South Boston (RHODORA, xv. 148 (1913)).

B. INERMIS Leyss. Sporadic weed in fields; Sandwich and Hyannisport in Barnstable County.

Forma **ARISTATUS** (Schur) Fernald in RHODORA, xxxv. 316 (1933). Apparently on the increase; Needham, Hingham and Nantucket in the East, occasional in Worcester County, Enfield and Amherst in Hampshire and Stockbridge in Berkshire.

B. ciliatus L. (*B. ciliatus* var. *denudatus* (Wiegand) Fernald in large part but not as to type; cf. RHODORA, xxxii. 68 (1930)). Thickets and borders of woods; occasional in Middlesex County, becoming rather common in Worcester County and westward.

Var. **intonsus** Fernald in RHODORA, xxxii. 70 (1930). Occasional in Essex and Middlesex Counties and westward.

B. Dudleyi Fernald in RHODORA, xxxii. 63 (1930). Limy or neutral bogs and wet thickets; Sherborn and Hopkinton in Middlesex County and occasional in Worcester County and westward.

B. purgans L. Rocky woods; occasional in the vicinity of Boston and from Worcester County westward.

Forma **laevivaginatus** Wiegand in RHODORA, xxiv. 92 (1922). Same range as the species, but also Boxford in Essex County.

B. latiglumis (Scribn.) Hitchc. (*B. altissimus* Pursh (1814), not Gilib. (1792)). Alluvial banks; Merrimac in Essex County, Sandwich in Barnstable, Mount Toby in Franklin, Hadley and Amherst in Hampshire, Chicopee and Springfield in Hampden and common in Berkshire County.

B. Kalmii Gray. Dry ground; Dorchester in Suffolk County, occasional from western Worcester County westward.

B. BRIZAEFORMIS Fisch. & Mey. Waste ground; Charlestown and South Boston in Suffolk County and New Bedford in Bristol.

B. SECALINUS L. Waste ground; frequent throughout.

B. COMMUTATUS Schrad. (*B. pratensis* Ehrh. ex Hoffm. (1800) not Lam. (1785)). Waste ground; occasional in the Boston District, and in Bristol, Nantucket, Worcester and Berkshire Counties.

B. MOLLIS L. (*B. hordeaceus* of Manual, not L.; cf. RHODORA, xxxv. 316 (1933)). Fields and waste ground; rare in Essex County, frequent elsewhere in the East, Worcester in Worcester County, Amherst in Hampshire, and frequent in Berkshire County.

Forma **LEIOSTACHYS** (Hartm.) Fernald in RHODORA, xxxv. 316 (1933). (*B. hordeaceus* var. *leptostachys* of Manual, not Beck). Salem and East Gloucester in Essex County, Dorchester in Suffolk, Nantucket (Bicknell in Bull. Torr. Bot. Club xliv. 375 (1917)), Worcester.

B. RACEMOSUS L. Waste ground; occasional near Boston and in Bristol and Worcester (Jackson, Fl. Worcester Co. 21 (1909)) Counties.

B. JAPONICUS Thunb. Waste ground; Boston.

Var. **PORRECTUS** Hackel. (Cf. Fernald in RHODORA, xliii. 529 (1941)). Somerville in Middlesex County, Boston in Suffolk and Stoughton in Norfolk.

B. RIGIDUS Roth. (*B. villosus* Forsk. (1775), not Scop. (1772)). Waste places; South Boston (RHODORA, xv. 148 (1913)).

Var. **GUSSONEI** (Parl.) Coss. & Dur. Medford in Middlesex County, Boston.

B. STERILIS L. Boston, Barnstable, Provincetown and Nantucket in the East.

B. RUBENS L. In wool waste, North Billerica in Middlesex County, *C. W. Swan*, in 1883.

B. TECTORUM L. Waste ground; common in the East, occasional in Worcester County and rare westward.

VULPIA K. C. Gmelin

(*Festuca* of Manual in part; cf. Fernald in RHODORA, xlvii. 107 (1945)).

V. octoflora Walt. var. **tenella** (Willd.) Fernald in RHODORA, xlvii. 107 (1945). Dry sterile soil; frequent in the East, occasional in Worcester, Hampshire and Hampden Counties.

V. DERTONENSIS (All.) Volk. South Boston, *C. E. Faxon*, in 1878.

V. MYUROS L. Dry fields and waste ground; occasional in Middlesex, Suffolk, Bristol, Barnstable, Dukes and Nantucket Counties.

FESTUCA L. FESCUE GRASS

F. ELATIOR L. Meadows and waste ground; common throughout.

F. obtusa Biehler (Cf. Fernald in RHODORA, xlvii. 199 (1945)). (*F. nutans* Biehler (1807), not Moench. (1794)). Moist rich woods; frequent in the Boston District and westward, but known only from Sandwich and Chilmark in the Southeast.

F. rubra L. (For forms and varieties cf. RHODORA, xxxv. 132 (1933)). Dry sandy soil; frequent in the East and in Worcester and Berkshire Counties, rare in the Connecticut Valley.

Forma **megastachys** (Gaud.) Holmb. Amesbury in Essex County and Boston and Roxbury in Suffolk.

Forma **squarrosa** (Fries) Holmb. (*F. rubra* var. *subvillosa* Mert. & Koch). Dorchester in Suffolk County and Amherst in Hampshire.

Var. **commutata** Gaud. Occasional in the East.

Var. **multiflora** (Hoffm.) Aschers. & Graebn. East Gloucester in Essex County, Shirley in Middlesex, Walpole in Norfolk, Harwich in Barnstable and Petersham in Worcester.

Var. **juncea** (Hackel) Richter. Gay Head in Dukes County, *F. C. Seymour*.

Var. **VIVIPARA** Norman, Fl. Arct. Norveg. 53 (1893). Railroad embankment, Lexington, Middlesex County, *C. H. Knowlton*, Sept. 20, 1903.

Not to be confused with *F. prolifera* (Piper) Fernald in RHODORA, xxxv. 133 (1933), which does not occur south of northern Maine and New Hampshire.

F. ovina L. Occasional, but not recorded from Dukes County. Forma **hispidula** (Hackel) Holmb. (*F. ovina* var. *hispidula* Hackel; cf. Fernald in RHODORA, xxxv. 165 (1933)). Occasional in the Boston District and in Plymouth, Nantucket (Bicknell in Bull. Torr. Bot. Club, xlv. 374 (1917)) and Berkshire Counties.

Var. **DURIUSCULA** (L.) Koch. Reported from Middlesex, Suffolk, Norfolk, Plymouth, Bristol, Barnstable, Dukes, Nantucket (Bicknell in Bull. Torr. Bot. Club, xxxv. 475 (1908)), Worcester and Hampshire Counties.

F. CAPILLATA Lam. (*F. ovina* var. *capillata* Hackel; cf. Hubbard in RHODORA, xviii. 235 (1916)). Dry soil; occasional throughout but more frequent in the East and in Worcester County.

SCLEROPOA Griseb.

S. RIGIDA (L.) Griseb. Casual introduction in waste places; Boston, *C. E. Perkins*, in 1878.

PUCCINELLIA Parl.

P. fasciculata (Torr.) Bicknell. (*P. Borreri* (Bab.) Hitchc.; cf. Fernald & Weatherby in RHODORA, xviii. 9 (1916)). Salt marshes; Newbury in Essex County, occasional in Bristol and Barnstable Counties and frequent in Nantucket.

P. maritima (Huds.) Parl. Salt marshes; common along the coast from Essex to Norfolk County, occasional in Barnstable County.

P. DISTANS (L.) Parl. Waste ground, not so clearly halophytic as the other species; Suffolk County and North Adams in Berkshire County.

Var. **ANGUSTIFOLIA** (Blytt) Holmb. in Hartmans Handb. Scand. Fl. ed. 12, i. pt. 2, 216 (1926). (*Glyceria distans* var. *angustifolia* Blytt, Norges Fl. 136 (1861); *G. distans* forma or var. *tenuis* Uechtritz in Crépin, Notes Pl. Rar. Belg. fasc. 5, 229 (1865); *Puccinellia distans* var. *tenuis* (Uechtritz) Fernald & Weatherby in RHODORA, xviii. 5, 12 (1916)). West Lynn, Boston and Nantucket in the East.

P. paupercula (Holm.) Fernald & Weatherby var. **alaskana** (Scribn. & Merrill) Fernald & Weatherby in RHODORA, xviii. 6, 18 (1916). (*P. pumila* (Vasey) Hitchc.; cf. Fernald & Weatherby in RHODORA, xxxvi. 346 (1934)). Salt marshes; rare in Plymouth, Barnstable and Dukes Counties.

GLYCERIA R. Br. MANNA GRASS

G. acutiflora Torr. Swamps, often in shallow water; occasional throughout.

G. borealis (Nash) Batchelder. Swamps or shallow water; occasional from the Boston District westward, becoming common in Berkshire County, known only from Easton in the Southeast.

G. septentrionalis Hitchc. Swamps and shallow water; Lynnfield in Essex County, frequent in the southern half of the Boston District, occasional from Worcester County westward, and in the Southeast in Plymouth, Bristol and Nantucket Counties.

G. fluitans (L.) R. Br. Shallow water; Nantucket, *Nellie F. Flynn*, in 1909.

G. obtusa (Muhl.) Trin. Swamps; frequent in the coastal counties but not reported from Nantucket, West Boylston and Douglas in Worcester County.

G. melicaria (Michx.) Hubbard. (*G. Torreyana* Hitchc.; cf. RHODORA, xiv. 186 (1912)). Swampy woods; Haverhill in Essex County, occasional in southern Worcester County and in the Connecticut Valley, becoming frequent in Berkshire County.

G. canadensis (Michx.) Trin. RATTLESNAKE GRASS. Wet ground; common throughout.

G. laxa Scribn. (Cf. Fernald & Wiegand in RHODORA, xii. 135 (1910)). Wet ground; Everett in Middlesex County, occasional in the Connecticut Valley.

G. striata (Lam.) Hitchc. in Proc. Biol. Soc. Wash. xli. 157 (1928). (*G. nervata* Trin.). FOWL MEADOW GRASS. Wet ground and shallow water; common on the mainland and Nantucket (Bicknell in Bull. Torr. Bot. Club, xxxv. 196 (1908), as *Panicularia nervata*), and Naushon and Chilmark in Dukes County.

Var. **stricta** (Scribn.) Fernald in RHODORA, xxxi. 47 (1929). Occasional in the Boston District and in Worcester and Berkshire Counties.

G. grandis Wats. (*Panicularia americana* (Torr.) MacMillan). REED MEADOW GRASS. Moist ground and shallow water; frequent in the Boston District and Berkshire County, occasional elsewhere but not reported from Plymouth or Dukes County.

G. pallida (Torr.) Trin. Sloughs and shallow water; occasional in the eastern counties, rare westward.

G. Fernaldii (Hitchc.) St. John in RHODORA, xix. 76 (1917). (*G. neogaea* sensu Hitchc. Man. Grass. U. S. 94 (1935), non Steud.; cf. Chase in Am. Journ. Bot. xxiv. 33 (1937)). Wet ground and shallow water; rare in Middlesex, Suffolk, Norfolk, Plymouth, Barnstable, Worcester and Berkshire Counties.

POA L. MEADOW GRASS. SPEAR GRASS

P. CHAPMANIANA Scribn. Recently introduced weed; Haverhill in Essex County and Amherst in Hampshire.

P. ANNUA L. Lawns, yards and waste ground; common.

P. COMPRESSA L. CANADA BLUE GRASS. Sterile, usually dry soil; common.

P. PRATENSIS L. JUNE GRASS, KENTUCKY BLUE GRASS. Fields; very common.

P. ANGUSTIFOLIA L. (*P. pratensis* of Manual in part; cf. RHODORA, xlviii. 22 (1946)). Apparently much less common than the preceding and in dryer habitats.

P. TRIVIALIS L. Moist ground, either open or wooded; occasional at low altitudes.

P. alsodes Gray. Moist woods; Lancaster and Worcester in Worcester County, common in the Connecticut Valley and in Berkshire County.

P. languida Hitchc. (*P. debilis* Torr. (1843), not Thuill. (1799)). Rich woods; Ashby in Middlesex County, occasional in Franklin, Hampden and Berkshire Counties.

P. saltuensis Fernald & Wiegand in RHODORA, xx. 122 (1918). Woodland thickets and recent clearings; occasional in northwestern Middlesex County and from northern Worcester County westward.

P. nemoralis L. Meadows and open woods; occasional in the Boston District and in Berkshire County.

P. palustris L. (*P. triflora* Gilib.; cf. Hubbard in RHODORA, xviii. 235 (1916)). Wet or dry ground; common, but not reported from Plymouth, Dukes or Franklin County.

BRIZA L. QUAKING GRASS

B. MAXIMA L. Boston, *C. E. Perkins* in 1878 (RHODORA, xv. 144 (1913)).

B. MEDIA L. Fields and waste ground; occasional in the Boston District and rare in Worcester, Franklin and Hampshire Counties.

(*B. minor* L. It has not been possible to verify the report of this species in RHODORA, xlviii. 18 (1946) and presumably it was recorded from Massachusetts by error).

DIPLACHNE Beauv.

(*Leptochloa* of Manual in part, cf. Nash in Britton & Brown, Ill. Fl. ed. 2, i. 110, 236 (1913)).

D. UNINERVIA (Presl) Parodi in Univ. Nac. Buenos Aires Rev. Céntr. Estud. xviii. 147 (1925). (*Leptochloa imbricata* Thurb.). Woolen mill waste; North Billerica in Middlesex County, *C. W. Swan* in 1885.

D. maritima Bicknell. (*Leptochloa fascicularis* of Manual in part; cf. Nash in Britton & Brown, Ill. Fl. ed. 2, i. 236, 237 (1913)) Waste ground, Boston, on tidal shores in Dukes County on Naushon, and on Nantucket (Bicknell in Bull. Torr. Bot. Club, xxxv. 195 (1908)).

ERAGROSTIS Beauv.

E. hypnoides (Lam.) BSP. Sandy river banks and lake margins; rare in the Connecticut Valley and Berkshire County.

E. capillaris (L.) Nees. Dry sand and gravel; occasional in the Boston District and in Worcester, Hampshire and Berkshire Counties, Erving in Franklin County.

E. Frankii (Fisch., Mey. & Lall.) Steud. Riverbanks and moist gravelly soil; Amherst in Hampshire County, Springfield in Hampden and Sheffield and Alford in Berkshire.

E. PILOSA (L.) Beauv. (*E. pilosa* of Manual in part; cf. Wiegand in RHODORA, xix. 93 (1917) and Long, xxi. 133 (1919)). Waste ground; Salisbury, Marblehead, and Gloucester in Essex County, Scituate in Plymouth, Eastham in Barnstable, Berlin and Shrewsbury in Worcester, Sunderland in Franklin, Amherst, Hadley and Northampton in Hampshire and Granville in Hampden.

E. pectinacea (Michx.) Nees. (*E. pilosa* of Manual in part, cf. above. *E. Purshii* Schrad., cf. Farwell in Am. Midland Nat. x. 306 (1927)). Open sandy ground and waste places; frequent.

E. MULTICAULIS Steud. (*E. peregrina* Wiegand, cf. Fernald in RHODORA, xlvii. 108 (1945)). Dry gravelly soil and waste places; occasional in the Boston District and in Barnstable, Franklin, Hampshire and Berkshire Counties, frequent in Worcester County.

E. MEGASTACHYA (Koeler) Link. (*E. major* Host., *E. cilianensis* auctt. in part, cf. Ascherson & Graebner, Syn. Mitteleurop. Fl. ii. 371 (1900)). Waste ground; frequent about Boston and Worcester, occasional elsewhere, but not reported from Hampden County.

E. POAEOIDES Beauv. (*E. minor* Host.). Waste ground; rare weed in Middlesex, Suffolk, Norfolk, Dukes, Nantucket, Hampshire and Berkshire Counties.

E. HIRSUTA (Michx.) Nees. Dry soil; recorded from Massachusetts without further locality (Hitche. Man. Grass. U. S. 158 (1935)).

E. INTERMEDIA Hitche. Waste land; South Boston, *C. E. Faxon* in 1878.

E. spectabilis (Pursh) Steud. (*E. pectinacea* var. *spectabilis* (Pursh) Gray; cf. Farwell in Am. Midland Nat., x. 306 (1927)). Dry sandy soil; occasional in Middlesex, Suffolk and Barnstable Counties, frequent in Dukes and Nantucket Counties.

Var. **sparsihirsuta** Farwell in Am. Midland Nat. x. 306 (1927). (*E. pectinacea* of Manual). Common in the East and Worcester County, frequent westward.

MOLINIA Schrank

M. CAERULEA (L.) Moench. Waste land; South Boston, *W. S. Ripley, Jr.*, in 1916.

DISTICHLIS Raf. SPIKE GRASS. ALKALI GRASS

D. spicata (L.) Greene. Salt marshes; common along the coast.

DACTYLIS L. ORCHARD GRASS

D. GLOMERATA L. Fields, roadsides and waste places; common. Var. **DETONSA** Fries (Cf. Fernald in RHODORA, xxxv. 137 (1933)). Noted from Middlesex, Suffolk, Plymouth, Nantucket, Worcester, Hampshire and Hampden Counties.

Var. **CILIATA** Peterm. (Cf. above). Noted from the Boston District and Bristol, Barnstable, Dukes, Worcester and Berkshire Counties.

CYNOSURUS L. DOGTAIL

C. CRISTATUS L. Fields and waste ground; occasional in Boston and vicinity, Worcester in Worcester County, Amherst in Hampshire, Springfield in Hampden and Stockbridge in Berkshire.

PHRAGMITES Trin. REED

P. communis Trin. var. **Berlandieri** (Fourn.) Fernald in RHODORA, xxxiv. 211 (1932). Pond margins and swamps; near the coast, also Westborough in Worcester County, Monson in Hampden and rare stations in Berkshire.

Var. **STOLONIFERA** G. F. W. Meyer. (Cf. Hegi, Fl. Mitteleuropa, ed. 2, i. 367 (1936)). South Boston, *K. M. Wiegand* in 1911.

SCHIZACHNE Hack.

S. purpurascens (Torr.) Swallen in Journ. Wash. Acad. Sci. xviii. 204, fig. 1 (1928). (*Melica striata* (Michx.) Hitchc.). Rocky woods; Ashburnham in Worcester County, Bernardston and Sunderland in Franklin, Amherst in Hampshire, and frequent in the valley area of Berkshire County.

TRIODIA R. Br.

T. flava (L.) Smyth. (*Tridens flavus* (L.) Hitchc.). TALL RED TOP. Dry fields; rare in Middlesex, Norfolk, Plymouth, Barnstable, Dukes, Nantucket (Bicknell in Bull. Torr. Bot. Club, xxxv. 195 (1908)), Worcester, Franklin and Hampshire Counties.

TRIPLASIS Beauv.

T. purpurea (Walt.) Chapm. SAND GRASS. Dry sandy soil; occasional in the Boston District, usually near the coast, frequent in the Southeast.

AGROPYRON Gaertn.

A. REPENS (L.) Beauv. (For varieties and forms cf. RHODORA, xxxv. 182 (1933)). COUCH GRASS, QUITCH GRASS. Fields, waste and cultivated ground; very common throughout.

Forma **ARISTATUM** (Schum.) Holmb. Occasional in Essex, Plymouth, Barnstable, Dukes, Nantucket, Hampshire and Berkshire Counties, frequent in Worcester County.

Forma **TRICHORRHACHIS** Rohlena. Occasional in Middlesex, Suffolk, Barnstable, Nantucket and Worcester Counties.

Forma **PILOSUM** (Scribn.) Fernald. Essex, Suffolk, Nantucket (Bicknell in Bull. Torr. Bot. Club, xxxv. 476 (1908)) and Worcester Counties.

Var. **SUBULATUM** (Schreb.) Reichenb. Frequent in the Boston District and in Worcester County, rare in Plymouth, Barnstable and Hampshire Counties.

Var. **SUBULATUM** forma **VAILLANTIANUM** (Wulf. & Schreb.) Fernald. Found in the Boston District and in Barnstable, Dukes, Nantucket and Berkshire Counties, frequent in Worcester County.

Var. **SUBULATUM** forma **HEBERHACHIS** Fernald. Andover in Essex County and Sherborn in Middlesex.

Var. **SUBULATUM** forma **SETIFERUM** Fernald. Rare in Essex, Suffolk, Norfolk, Dukes, Nantucket and Worcester Counties.

A. PUNGENS (Pers.) R. & S. Beaches or salt marsh; along the coast in Ipswich, Gloucester, Boston, Cohasset and Scituate, and frequent in Barnstable County.

A. TRICHOPHORUM (Link) Richt. Lynn in Essex County (Cf. Hitchc. Man. Grass. U. S. 236 (1935)).

A. trachycaulum (Link) Steud. var. **novae-angliae** (Scribn.) Fernald in RHODORA, xxxv. 174 (1933). (*A. tenerum* in New England of Manual, *A. pauciflorum* (Schwein.) Hitchc.; cf. Fernald in RHODORA, xxxvi. 417 (1934)). Bogs and open rocky woods; rare in Essex, Middlesex, Franklin and Berkshire Counties.

Var. **glaucum** (Pease & Moore) Malte. (*A. caninum* of Manual, cf. RHODORA, xxxv. 177 (1933)). Rare in Middlesex, Norfolk, Franklin, Hampshire and Berkshire Counties.

TRITICUM L.

T. AESTIVUM L. WHEAT. Waste ground; occasional escape throughout.

SECALE L. RYE

S. CEREALE L. Waste ground; occasional escape throughout.

ELYMUS L. WILD-RYE

E. arenarius L. var. **villosus** E. Meyer. (*E. arenarius* of Manual, not L., *E. mollis* Trin.; cf. St. John in RHODORA, xvii. 98 (1915)). Coastal dunes; East Gloucester and Provincetown.

E. villosus Muhl. (*E. striatus* of Manual; cf. RHODORA, xxxv. 194 (1933)). Woods and banks; rare in the Boston District and Hampden County, frequent in Berkshire County.

Forma **arkansanus** (Scribn. & Ball) Fernald in RHODORA, xxxv. 195 (1933). Plum Island in Essex County.

E. canadensis L. (*E. robustus* var. *vestitus* Wiegand; cf. RHODORA, xxxv. 187 (1933)). Dry uplands; occasional in Middlesex, Suffolk, Norfolk, Franklin and Hampden Counties, Somerset in Bristol County.

Forma **glaucifolius** (Muhl.) Fernald in RHODORA, xxxv. 191 (1933). (*E. robustus* Scribn. & Sm., *E. brachystachys* Scribn. & Ball). Recorded from Essex, Middlesex, Norfolk, Bristol, Worcester and Hampden Counties.

E. Wiegandii Fernald in RHODORA, xxxv. 192 (1933). (*E. canadensis* of Wiegand, not L.). Alluvial soil; occasional in the Connecticut Valley and common in the valley area of Berkshire County.

Forma **calvescens** Fernald in RHODORA, xxxv. 192 (1933). Williamstown in Berkshire County, *R. Hoffmann* in 1916.

E. riparius Wiegand in RHODORA, xx. 84 (1918). Riverbanks and low ground; Andover in Essex County, Lancaster in Worcester, occasional in the Connecticut Valley and common in the valley area of Berkshire County.

E. virginicus L. (For varieties and forms cf. RHODORA, xxxv. 197 (1933)). Moist ground; occasional in Essex, Middlesex, Norfolk, Plymouth, Bristol, Barnstable, Dukes and Worcester Counties, Palmer in Hampden County, common in Berkshire County.

Forma **hirsutiglumis** (Scribn.) Fernald. Occasional in Essex, Middlesex, Norfolk, Plymouth, Hampshire, Hampden and Berkshire Counties.

Forma **jejunos** (Ramaley) Bush. Enfield in Hampshire County and Wilbraham and Palmer in Hampden.

Var. **halophilus** (Bicknell) Wiegand in RHODORA, xx. 83 (1918). Brackish marshes and sand; frequent along the coast.

Var. **submuticus** Hook. Chelsea Beach in Revere, Suffolk County, and Cohasset in Norfolk County.

Var. **glabriflorus** (Vasey) Bush. Ayer in Middlesex County, *W. H. Manning* in 1882.

Var. **glabriflorus** forma **australis** (Scribn. & Ball) Fernald. Canton in Norfolk County and Chippaquidick Island in Dukes.

HYSTRIX Moench. BOTTLE-BRUSH GRASS

H. patula Moench. Open usually rocky woods; occasional in the Boston District and westward, becoming frequent in the valley area of Berkshire County.

Var. **Bigeloviana** (Fernald) Deam in Indiana Dept. Conserv. Pub. lxxxii. 117 (1929). (*Asperella Hystrix* var. *Bigeloviana* Fernald in RHODORA, xxiv. 230 (1922)). Occasional in Essex, Middlesex and Suffolk Counties and in the Connecticut Valley, Dalton in Berkshire County.

HORDEUM L. BARLEY

H. jubatum L. Waste ground and borders of marshes; occasional in the Boston District near the coast, and in Bristol, Dukes, Nantucket, Worcester and Berkshire Counties.

H. NODOSUM L. Filling; South Boston, *H. A. Young* in 1879.

H. MARINUM Huds. (*H. maritimum* With.). Waste ground; Boston, *C. E. Perkins* in 1879.

H. MURINUM L. Waste ground; Dracut, North Chelmsford, Billerica and Lowell in Middlesex County and Boston and Charlestown in Suffolk.

H. VULGARE L. BARLEY. Waste ground; occasional in the Boston District and in Bristol, Nantucket (*Bicknell* in Bull. Torr. Club, xxxv. 201 (1908)), Franklin and Berkshire Counties.

H. DISTICHON L. Boston, *C. W. Swan* in 1883 (Cf. RHODORA, xv. 150 (1913)).

LOLIUM L. RYEGRASS

L. PERENNE L. Fields and waste ground; frequent in the Boston District and recorded from Barnstable, Dukes, Nantucket, Hampshire, Hampden (*Andrews*, Cat. Springfield, 40 (1924)) and Berkshire Counties.

L. MULTIFLORUM Lam. Fields and waste ground; occasional in the Boston District and in Plymouth, Bristol, Nantucket, Worcester, Hampden (*Andrews*, Cat. Springfield, 40 (1924)) and Berkshire Counties.

Var. **DIMINUTUM** Mutel. (Cf. *Weatherby* in RHODORA, xix. 121 (1917)). Rare in Essex, Middlesex, Suffolk and Plymouth Counties.

L. TEMULENTUM L. Waste ground; Rowley in Essex County, Suffolk County without further locality.

Var. **LEPTOCHAETON** A. Br. (Cf. *Fernald* in RHODORA, xii. 185 (1910)). Suffolk County, *C. E. Perkins* in 1882.

SPHENOPHOLIS Scribn. WEDGEGRASS

S. obtusata (Michx.) Scribn. Dry soil; rare in Essex, Suffolk, Nantucket and Hampden Counties.

Var. **lobata** (Trin.) Scribn. Concord in Middlesex County, Milton in Norfolk, Granby in Hampshire and Monson in Hampden.

S. intermedia (Rydb.) Rydb. (*S. pallens* of Manual and var. *major* (Torr.) Scribn., cf. Hitchc. Man. Grass. U. S. 955 (1935)). Meadows and ditches; rare in the Boston District and in Hampshire and Hampden Counties, frequent in the valley area of Berkshire County.

S. nitida (Biehler) Scribn. (Cf. Fernald in RHODORA, xlvii. 198 (1945)). Woods; rare in southern Middlesex and in Norfolk County and in the Connecticut Valley, frequent in the valley area of Berkshire County.

(*S. palustris* (Michx.) Scribn.; cf. *Trisetum pensylvanicum*).

TRISETUM Pers.

T. spicatum (L.) Richter var. **molle** (Michx.) Beal. (*T. spicatum* of Manual in part; cf. RHODORA, xviii. 196 (1916)). Rocky and sandy woods and banks; rare in the Boston District and in Worcester, Franklin, Hampden and Berkshire Counties.

T. FLAVESCENS (L.) Beauv. Rare introduction; Harwich in Barnstable County and from an indefinite locality in the Connecticut Valley (Stone, Pl. Franklin, Hampshire and Hampden Counties, 9 (1913)).

T. pensylvanicum (L.) Beauv. (*Sphenopholis palustris* (Michx.) Scribn.). Swamps and meadows; rare in the Boston District and in Bristol, Barnstable, Nantucket (Bicknell in Bull. Torr. Bot. Club, xxxv. 475 (1908)), Franklin, Hampshire and Hampden (Andrews, Cat. Springfield, 35 (1924)) Counties.

DESCHAMPSIA Beauv. HAIRGRASS

D. ELONGATA (Hook.) Monroe. Indefinite citation for the state (cf. RHODORA, xxxviii. 266 (1936)).

D. flexuosa (L.) Trin. Dry ground; frequent in the Boston District, common in the Southeast, occasional in Worcester County, Mount Toby in Franklin County, occasional on dry summits in Berkshire County.

D. caespitosa (L.) Beauv. var. **parviflora** (Thuill.) Richter. (*D. caespitosa* of Manual in part, cf. Fernald in RHODORA, xxviii. 153, 154 (1926)). Fields; Worcester in Worcester County, Mount Toby in Franklin and Washington in Berkshire.

Var. **glauca** (Hartm.) Lindm. (*D. caespitosa* of Manual in part, cf. above). Lowell in Middlesex County and Needham in Norfolk.

AIRA L.

A. CARYOPHYLLEA L. Dry fields; locally common in Barnstable and Nantucket Counties.

CORYNEPHORUS Beauv.

C. CANESCENS (L.) Beauv. Sandy field; Edgartown, Dukes County, *E. P. Bicknell* in 1910–13.

AVENA L. OATS

A. FATUA L. Waste ground; occasional escape recorded from Middlesex, Suffolk, Norfolk, Hampshire, Hampden and Berkshire Counties.

A. HYBRIDA Koch. Waste ground; Newburyport, Essex County, *E. F. Williams* in 1898.

A. ORIENTALIS Schreb. (Characterized by a narrow secund panicle, mostly 2-flowered spikelets and glabrous lemmas). Wharf; Nantucket, *J. R. Churchill* in 1905.

A. SATIVA L. Waste ground; frequent escape throughout.

A. BARBATA Brot. (*A. hirsuta* Roth.). Dump, South Boston, *C. W. Swan* in 1886 (Cf. *RHODORA*, xv. 129 (1913)).

ARRHENATHERUM Beauv. OAT GRASS

A. ELATIUS (L.) Beauv. Fields and roadsides; occasional in the Boston District and in Barnstable, Nantucket, Franklin, Hampshire, Hampden and Berkshire Counties, North Attleboro in Bristol County, frequent in Worcester County.

Var. **BULBOSUM** (Willd.) Spenner. (Var. *nodosum* (Reichenb.) Hubbard). Plymouth, *S. F. Blake*, no. 3854, in 1912.

Var. **BULBOSUM** forma **STRIATUM** (Hubbard) L. B. Smith.¹ Plymouth, *S. F. Blake*, no. 3855, in 1912.

HOLCUS L.

H. LANATUS L. VELVET GRASS. Fields and open ground; common in the East, occasional westward.

DANTHONIA Lam. & DC. OATGRASS

D. spicata (L.) Beauv. (Including var. *longipila* auctt. in *RHODORA*, xxxviii. 266 (1936), not Scribn. & Merrill, cf. Fernald in *RHODORA*, xlv. 244 (1943)). Dry sterile fields or woods; common.

D. Alleni Austin. (*D. spicata* and *D. compressa* of Manual in part, cf. Fernald in *RHODORA*, xlv. 239, 240 (1943)). Open shores, rocky or arid openings, clearings and burns; found in the Boston District and Plymouth, Barnstable, Nantucket, Worcester and Berkshire Counties.

¹ **ARRHENATHERUM ELATIUS** (L.) Beauv., var. **BULBOSUM** (Willd.) Spenner, forma **striatum** (Hubbard) L. B. Smith, comb. nov. *A. elatius* (L.) Beauv., var. *nodosum* (Reichenb.) Hubbard, forma *striatum* Hubbard in *RHODORA*, xviii. 235 (1916).

D. compressa Austin. Dry open woods; frequent on the mainland, noted on Nantucket.

CALAMAGROSTIS Adans. REEDGRASS

(Cf. Stebbins in RHODORA, xxxii. 35 (1930)).

C. canadensis (Michx.) Beauv. Wet places; common.

Var. **Macouniana** (Vasey) Stebbins in RHODORA, xxxii. 41 (1930). (*Deyeuxia Macouniana* Vasey, *Calamagrostis Macouniana* Vasey). Boxford in Essex County and Brewster in Barnstable, and apparently following the Swift River Valley with Dana in Worcester County and New Salem and Wendell in Franklin.

C. cinnoides (Muhl.) Barton. Swamps and wet ground; occasional in the Boston District, becoming more frequent in the Southeast but rare in Dukes County, occasional in Worcester County and the Connecticut Valley (Andrews, Cat. Springfield, 35 (1924)).

C. Pickeringii Gray. Meadows; Andover in Essex County.

Var. **debilis** (Kearney) Fernald & Wiegand in RHODORA, xv. 135 (1913). Andover in Essex County and Wilmington in Middlesex.

C. EPIGEJOS (L.) Roth var. **GEORGICA** (C. Koch) Ledeb. Cf. Fernald in RHODORA, xxxv. 64 (1933). (*C. arenicola* Fernald). Upper edge of salt marsh in Gloucester, Essex County, and opening in sandy woods, Harwich, Barnstable County.

AMMOPHILA Host. BEACHGRASS

A. breviligulata Fernald in RHODORA, xxii. 71 (1920). (*A. arenaria* of Manual in large part). Dunes and beaches; common along the coast.

AGROSTIS L. BENT GRASS

A. SPICA-VENTI L. (*Apera spica-venti* (L.) Beauv.). Indicated from Massachusetts on map without citation of locality (Cf. Hitchc. Man. Grass. U. S. 327, fig. 654 (1935)).

A. stolonifera L. (*A. alba* of Manual; cf. Fernald in RHODORA, xxxv. 317 (1933)). Meadows and fields; very common.

Forma **aristigera** Fernald l. c. Granville in Hampden County, *F. C. Seymour*, July 27, 1914.

Var. **palustris** (Huds.) Farwell in Rep. Mich. Acad. Sci. xxi. 351 (1920). (*A. polymorpha* var. *palustris* Huds., *A. alba* var. *maritima* G. Meyer, *A. stolonifera* var. *compacta* Hartm.; cf. Hitchc. Man. Grass. U. S. 783 (1935) under *A. palustris*). Mostly brackish sand; frequent along the coast, occasional in Berkshire County.

A. GIGANTEA Roth. (Distinguished from *A. stolonifera* by its more robust habit, up to 1.5 m. high, its broader leaves, up to 11 mm. wide, its ample diffuse panicle and its mostly aristate lem-

mas; cf. Rouy & Foucaud, Fl. France, xiv. 61 (1913)). Waste land; Boston in Suffolk County and Cambridge in Middlesex.

A. TENUIS L. (*A. alba* var. *vulgaris* (With.) Coss. & Dur.; cf. Hitchc. Man. Grass. U. S. 785 (1935)). Fields and meadows; common.

Forma **aristata** (Parnell) Wiegand in RHODORA, xxvi. 2 (1924). Occasional in the Boston District and in Bristol, Dukes, Nantucket, Worcester, Hampshire and Berkshire Counties.

A. scabra Willd. (*A. hyemalis* of Manual in part, cf. Fernald in RHODORA, xxxv. 207 (1933)). Moist or dry open ground; common.

Forma **Tuckermani** Fernald l. c. Cambridge in Middlesex County and Braintree in Norfolk.

A. hyemalis (Walt.) BSP. (*A. hyemalis* of Manual in part, *A. antecedens* Bicknell; cf. Fernald in RHODORA, xxxv. 208 (1933)). Dry open ground; occasional in Barnstable, Dukes and Nantucket Counties, Worcester and Clinton in Worcester County.

A. perennans (Walt.) Tuckerman. Dry open ground and woods; common on the mainland, Naushon in Dukes County.

Var. **aestivalis** Vasey. (Cf. Fernald in RHODORA, xxxv. 318 (1933)). Common, but not reported from Plymouth, Dukes or Nantucket County.

A. altissima (Walt.) Tuckerman. (*A. perennans* var. *elata* (Pursh) Hitchc.; cf. Fernald in RHODORA, xlix. 109 (1947)). Moist ground, mostly near the coast; occasional in Middlesex and Norfolk Counties and in the Southeast.

A. CANINA L. Meadows and damp ground; occasional in the Boston District, Pelham in Hampshire County.

MIBORA Adans.

M. MINIMA (L.) Desv. Weed in nursery, Plymouth, *B. M. Watson* in 1915 (Cf. Hubbard in RHODORA, xvii. 97 (1915)).

CINNA L. WOODREED

C. arundinacea L. Borders of streams, swamps and wet woods; frequent on the mainland, Chilmark in Dukes County.

C. latifolia (Trev.) Griseb. Moist woods; rare in northern Essex and in Middlesex County, occasional in Worcester, Franklin and Hampshire Counties, and common in Berkshire.

ALOPECURUS L. FOXTAIL

A. MYOSUROIDES Huds. (*A. agrestis* L.). Waste ground; Suffolk County and Lowell in Middlesex County.

A. PRATENSIS L. MEADOW FOXTAIL. Fields and meadows; frequent except in the Southeast where known only from northern Plymouth County and Nantucket.

A. aequalis Sobol. (*A. geniculatus* var. *aristulatus* Torr., cf. Fernald in *Rhodora*, xxxii. 221 (1930)). Wet ground; occasional in the Boston District and in Worcester, Hampshire and Berkshire Counties.

A. geniculatus L. In water and wet ground; occasional in the Boston District and in Bristol, Barnstable, Nantucket, Worcester (Jackson, Fl. Worcester Co., 17 (1909)) Franklin and Hampden Counties.

POLYPOGON Desf.

P. MONSPELIENSIS (L.) Desf. Waste places; rare in Suffolk County and in northern Middlesex.

PHLEUM L.

P. PRATENSE L. TIMOTHY, HERD'S GRASS. Fields and waste places; very common

Var. **NODOSUM** (L.) Schreb. (Distinguished by its bulbous-thickened base). Recorded from Essex, Norfolk and Dukes Counties.

GASTRIDIDIUM Beauv.

G. VENTRICOSUM (Gouan) Schinz & Thell. (*G. australe* Beauv.). In wool waste; Lowell (*RHODORA*, xv. 127 (1913)) and Billerica in Middlesex County, South Boston.

MUHLENBERGIA Schreb.

M. uniflora (Muhl.) Fernald in *RHODORA*, xxix. 10 (1927). (*Sporobolus uniflorus* (Muhl.) Scribn. & Merr.). Meadows and bogs; frequent in the East on the mainland but not known from Dukes and Nantucket Counties, frequent in Worcester County, occasional in the Connecticut Valley and in Berkshire County.

M. sobolifera (Muhl.) Trin. Rocky woods and ledges; occasional in Essex, Middlesex, Norfolk, Worcester, Franklin, Hampshire and Hampden Counties.

M. tenuiflora (Willd.) BSP. Rocky woods; rare in Middlesex, Suffolk and Norfolk Counties, New Bedford, (E. W. Hervey, Fl. New Bedford, 90 (1911)) in Bristol, common in Worcester County (Jackson, Fl. Worcester Co., 16 (1909)), occasional in Franklin and Hampshire and frequent at lower altitudes in Berkshire County.

M. glomerata (Willd.) Trin. (*M. racemosa* of Manual, *M. setosa* (Biehler) Trin. ex Hook. f. & Jackson; cf. Hermann in *RHODORA*, xlvi. 63 (1946)). Meadows and low ground; rare in the Boston District and in Plymouth and Barnstable Counties.

Var. **cinnoides** (Link) Hermann in *RHODORA*, xlvi. 64 (1946). Rare from Middlesex and Norfolk Counties westward.

M. frondosa (Poir.) Fernald in RHODORA, xlv. 235 (1943). (*M. mexicana* of Manual, not (L.) Trin.). Woods, thickets and waste ground; frequent.

Forma **commutata** (Scribn.) Fernald, l. c. Occasional in Essex, Middlesex, Suffolk, Bristol, Barnstable and Dukes Counties.

M. sylvatica Torr. Moist woods and thickets; occasional in Middlesex, Suffolk, Norfolk and Worcester Counties, common in Franklin and Hampshire and frequent in Berkshire County at lower levels.

Forma **attenuata** (Scribn.) Palmer & Steyermark in Ann. Mo. Bot. Gard. xxii. 467 (1935). Rare in the Boston District and in Hampshire and Berkshire Counties.

Var. **robusta** Fernald in RHODORA, xlv. 236 (1943). Rare in Norfolk, Hampshire and Berkshire Counties.

M. mexicana (L.) Trin. (*M. foliosa* of Manual; cf. Fernald in RHODORA, xlv. 236 (1943)). Moist wooded or open ground; occasional from Essex, Middlesex and Suffolk Counties westward.

Forma **ambigua** (Torr.) Fernald, l. c. Rare in Essex, Middlesex and Worcester Counties.

M. Schreberi G. F. Gmel. DROP-SEED, NIMBLE WILL. Damp shady ground; rare to occasional in the Boston District and in Bristol County, Edgartown in Dukes and rare to occasional in Worcester, Hampshire, Hampden (Andrews, Cat. Springfield, 33 (1924)) and Berkshire Counties.

M. capillaris (Lam.) Trin. HAIR GRASS. Dry exposed ledges; Hingham in Plymouth County, *T. T. Bouve*, no date, and *J. R. Churchill*, Oct. 5, 1887, probably extinct, Mount Holyoke in Hampshire County.

SPOROBOLUS R. Br. DROP-SEED

S. vaginiflorus (Torr.) Wood. Dry sterile soil; frequent in the Boston District and occasional elsewhere.

Var. **inaequalis** Fernald in RHODORA, xxxv. 109 (1933). Occasional in Worcester County, Charlemont and Sunderland in Franklin County and Amherst in Hampshire.

S. neglectus Nash. Dry soil; rare in Dukes County and occasional in the valley area of Berkshire.

S. asper (Michx.) Kunth. Dry sandy soil; rare in the Boston District and in Plymouth and Bristol Counties.

S. cryptandrus (Torr.) Gray. Sandy and gravelly soil; occasional in the Boston District chiefly near the coast and in Plymouth County.

HELEOCHLOA Host.

H. schoenoides (L.) Host. Waste ground; South Boston. Dying out, not collected since 1936.

BRACHYELYTRUM Beauv.

B. erectum (Schreb.) Beauv. Moist woods; Blue Hills (Milton or vicinity) in Norfolk County and Pittsfield in Berkshire.

Var. **septentrionale** Babel in RHODORA, xlv. 260 (1943). Occasional in the Boston District, becoming frequent westward and common in Berkshire County, but known only from New Bedford in the Southeast.

MILIUM L.

M. effusum L. Rich woods; Brookfield in Worcester County (Jackson, Fl. Worcester Co., 16 (1909)), Mount Toby in Franklin, Middlefield in Hampshire and Mount Greylock and West Stockbridge in Berkshire.

ORYZOPSIS Michx.

O. pungens (Torr.) Hitchc. Dry sandy woods or fields; frequent in the East on the mainland but not reported from Dukes or Nantucket County, occasional in Worcester County and rare westward.

(*O. canadensis* (Poir.) Torr. (*Stipa canadensis* Poir.).

No Massachusetts material of this species has been found, and it seems likely that all records from the State are due to its confusion with *O. pungens* in such works as the 6th edition of Gray's Manual, the Flora of Essex County and the Flora of Middlesex County).

O. asperifolia Michx. Dry open woods; frequent from the Boston District westward to low levels of Berkshire County, in Southeast known only from North Easton in Bristol County.

O. racemosa (Sm.) Ricker. Dry rocky woods in rich soil; rare in Essex, Middlesex, Norfolk and Worcester Counties, occasional in the Connecticut Valley and frequent in the valley areas of Berkshire County.

STIPA L. FEATHER GRASS

(*S. canadensis* Poir.; cf. *Oryzopsis canadensis*).

S. avenacea L. BLACK OAT GRASS. Dry open woods; rare in the Boston District, occasional in Bristol, Barnstable, Dukes and Nantucket Counties.

ARISTIDA L.

A. tuberculosa Nutt. In sand; rare near the coast in Essex, Middlesex and Suffolk Counties.

A. dichotoma Michx. Dry sandy soil; common in the East, frequent in Worcester County and occasional in the Connecticut Valley, Pittsfield in Berkshire County.

A. OLIGANTHA Michx. Waste land; South Boston in 1878, Northampton in Hampshire County in 1945.

A. longespica Poir. var. **geniculata** (Raf.) Fernald in *RHODORA*, xxxv. 318 (1933). (*A. gracilis* of Manual in part). Sandy soil; frequent in the East on the mainland, rare in Nantucket County, occasional in Worcester and Amherst in Hampshire.

A. purpurascens Poir. Dry sandy soil; occasional in the East including Bristol County (E. W. Hervey, Fl. New Bedford, 93 (1911)).

TRAGUS Hall.

T. BERTERONIANUS Schult. Flats; South Boston, *C. E. Perkins* in 1882.

LEPTOCHLOA Beauv. SPRANGLETOP

L. FILIFORMIS (Lam.) Beauv. Cotton waste from mills; Lowell and Malden in Middlesex County. Not collected since 1888.

(*L. fascicularis* of Manual; cf. *Diplachne maritima*).

ELEUSINE Gaertn.

E. INDICA (L.) Gaertn. GOOSEGRASS. Waste ground; rare in Essex, Middlesex, Suffolk, Bristol, Worcester (Jackson, Fl. Worcester Co., 18 (1909)), Franklin, Hampshire and Hampden Counties.

DACTYLOCTENIUM Willd.

D. AEGYPTIUM (L.) Richt. Waste ground; Malden in Middlesex County and Worcester City.

CYNODON Rich. BERMUDA GRASS

C. DACTYLON (L.) Pers. Waste ground; Boston, Nantucket, Millbury and Northbridge in Worcester County, Amherst in Hampshire and Springfield (Andrews, Cat. Springfield, 36 (1924)) in Hampden.

SPARTINA Schreb. CORDGRASS

S. pectinata Link. (*S. Michauxiana* Hitchc.; cf. Fernald in *RHODORA*, xxxv. 258 (1933)). Wet shores and the upper edges of salt marshes, especially near the coast; frequent in the East, Brookfield in Worcester County and Northampton in Hampshire.

Var. **Suttiei** (Farwell) Fernald in *RHODORA*, xxxv. 260 (1933)). Occasional in the Boston District and in Plymouth County, Brookfield in Worcester County.

S. cynosuroides (L.) Roth var. **polystachya** (Michx.) Beal. (*S. cynosuroides* of Manual in part; cf. Fernald in *RHODORA*, xlix. 113 (1947)). Upper edges of salt marsh and dry sandy ground beyond; occasional in the western half of Barnstable County, common on Nantucket.

S. alterniflora Loisel. (*S. glabra* Muhl. var. *alterniflora* (Loisel.) Merr.; cf. Fernald in RHODORA, xviii. 177 (1916)). Salt marshes; frequent along the coast.

Var. **pilosa** (Merr.) Fernald in RHODORA, xviii. 179 (1916). Salt marshes; frequent along the coast.

S. patens (Ait.) Muhl. With *Juncus Gerardi* the dominant cover on salt marsh along the coast.

Var. **monogyna** (M. A. Curtis) Fernald in RHODORA, xlix. 114 (1947). (Var. *juncea* (Michx.) Hitchc.). Occasional along the coast.

S. caespitosa A. A. Eaton. (*S. patens* var. *caespitosa* (A. A. Eaton) Hitchc.). Rare in Essex, Plymouth, Barnstable and Dukes Counties.

CHLORIS Sw.

C. VIRGATA Sw. (*C. elegans* HBK.). Waste ground; South Boston in 1882 and Worcester in 1922.

BOUTELOUA Lag. GRAMA

B. RIGIDISETA (Steud.) Hitchc. (*B. texana* Watson). Flats; South Boston, *C. E. Perkins*, Aug. 2, 1882.

B. RADICOSA (Fourn.) Griffiths. Flats; South Boston, *C. E. Perkins*, 1882.

B. GRACILIS (HBK.) Lag. (*B. oligostachya* (Nutt.) Torr.). Waste ground; Danvers in Essex County and South Boston.

HIEROCHLOË R. Br.

H. odorata (L.) Wahlenb. VANILLA GRASS. Damp meadows and fresh or brackish marshes, especially near the coast; frequent in the East including Nantucket (Bicknell in Bull. Torr. Bot. Club, xxxv. 190 (1908) as *Savastana odorata*) but not yet reported from Dukes County, Westboro in Worcester County, rare in the Connecticut Valley to frequent at higher levels in Berkshire County.

ANTHOXANTHUM L.

A. ODORATUM L. SWEET VERNALGRASS. Fields and open ground generally; common.

A. ARISTATUM Boiss. (*A. Puelii* Lecoq & Lamotte). Waste places; rare in Middlesex, Suffolk, Norfolk, Barnstable, Dukes and Hampshire (Stone, Pl. Franklin, Hampshire & Hampden Counties, 8 (1913)) Counties.

PHALARIS L.

P. CANARIENSIS L. CANARY GRASS. Waste places; occasional in the Boston District and in Bristol, Nantucket, Worcester and Hampden Counties.

P. arundinacea L. REED CANARY GRASS. Wet places; frequent in the Boston District and westward, but known only from North Easton, New Bedford and Falmouth in the Southeast.

Forma **VARIEGATA** (Parn.) Druce, Fl. Berkshire, 556 (1897). (Var. *variegata* Parn., var. *picta* L.). RIBBON GRASS. Waste places as a garden escape; occasional in Essex, Middlesex, Norfolk, Worcester, Franklin, Hampshire and Berkshire Counties.

LEERSIA Sw.

L. oryzoides (L.) Sw. RICE CUTGRASS. Wet places; frequent.

Forma **glabra** A. A. Eaton in RHODORA, v. 118 (1903). Submersed, below tide limit; Newburyport in Essex County, A. A. Eaton & M. L. Fernald in 1902.

Forma **inclusa** (Wiesb.) Dörfler in Herb. Norm. cent. lv, lvi. 164 (1915). Cf. Fogg in RHODORA, xxx. 84 (1928). Rare in Essex, Middlesex, Plymouth, Barnstable and Dukes Counties.

L. virginica Willd. Wet woods; occasional in the Boston District and in Worcester County.

Var. **ovata** (Poir.) Fernald in RHODORA, xxxviii. 386 (1936). Occasional in the Boston District, the Connecticut Valley and Berkshire County.

ZIZANIA L. WILD RICE

Z. aquatica L. (Including *Z. palustris* of Manual; cf. Fassett in RHODORA, xxvi. 156 (1924)). Shallow fresh water; frequent in the Boston District, occasional in Plymouth, Barnstable and Nantucket Counties, rare in Worcester and Hampden Counties.

Var. **brevis** Fassett in RHODORA, xxvi. 157 (1924). Fassett indicates specimens from Amesbury and Rowley in Essex County as approaching this variety.

Var. **angustifolia** Hitchc. in RHODORA, viii. 210 (1906). Waquoit in Barnstable County, *H. St. John*, Sept. 5, 1911.

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A. S. GOODALE

F. W. GRIGG

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